

**AMENDMENTS TO THE CLAIMS**

Kindly amend the claims, without prejudice, without admission, without surrender of subject matter, and without any intention of creating any estoppel as to equivalents, as follows:

1. (Currently Amended) A method for creating a tissue seal, comprising:

~~identifying a tissue in need of repair;~~

contacting ~~the~~ a tissue in need of repair, and optionally a second tissue, with at least one photosensitizer agent to form a tissue-photosensitizer mixture; and

applying electromagnetic energy at a wavelength of at least about 488 nm to the tissue-photosensitizer mixture in a manner effective to produce cross linking of a protein in the tissue,

wherein the tissue is not contacted with an exogenous cross-linkable substrate which is cross linked by the application of electromagnetic energy,

thereby creating a tissue seal.

2. (Original) The method of claim 1, wherein the tissue is corneal tissue.

3. (Previously Presented) The method of claim 1, wherein at least one photosensitizer agent is selected from the group consisting of Rose Bengal, and riboflavin-5-phosphate.

4. (Previously Presented) The method of claim 1, wherein at least one photosensitizer agent is Rose Bengal.

5. (Original) The method of claim 1, wherein the contacting step occurs *ex vivo*.

6. (Original) The method of claim 1, wherein the contacting step occurs *in vivo* in a subject.

7. (Original) The method of claim 6, wherein the subject is a human.

8. (Original) The method of claim 1, wherein the application of electromagnetic energy to the tissue-photosensitizer mixture occurs without substantial thermal tissue damage.

9. (Original) The method of claim 1, wherein the application of electromagnetic energy to the tissue-photosensitizer mixture occurs without more than a 3°C rise in temperature.

10. (Original) The method of claim 1, wherein the application of electromagnetic energy to the tissue-photosensitizer mixture occurs without more than a 2°C rise in temperature.

11. (Original) The method of claim 1, wherein the application of electromagnetic energy to the tissue-photosensitizer mixture occurs without more than a 1°C rise in temperature.

12. (Previously Presented) A method for repairing a corneal lesion, comprising:  
contacting a corneal tissue with at least one photosensitizer agent to form a  
corneal tissue-photosensitizer mixture; and  
applying electromagnetic energy having a wavelength of at least about 488 nm to  
the corneal tissue-photosensitizer mixture in a manner effective to elicit the production of a  
reactive species from the photosensitizer,

wherein the corneal tissue is not contacted with an exogenous cross-linkable substrate  
which is cross-linked by the application of electromagnetic energy,  
thereby promoting a partial or complete repair of the corneal lesion.

13. (Original) The method of claim 12, wherein the corneal lesion is caused by a  
surgical procedure.

14. (Currently Amended) The method of claim 13, wherein the surgical procedure is  
selected from the group consisting of corneal transplant surgery, cataract surgery, laser surgery,  
keratoplasty, LASIK, refractive surgery, cornea reshaping, and treatment of corneal laceration.

15. (Previously Presented) The method of claim 12, wherein the electromagnetic  
energy applied is about 124 to about 762 J/cm<sup>2</sup>.

16. (Original) The method of claim 12, wherein the electromagnetic energy is applied  
at an irradiance less than 3.5 W/cm<sup>2</sup>.

17. (Previously Presented) A method for repairing a corneal lesion *in vivo* in a living  
subject, comprising:

contacting a corneal tissue with Rose Bengal (RB) to form a corneal tissue-RB  
mixture; and

applying electromagnetic energy to the corneal tissue-RB mixture in a manner  
effective to elicit the production of a oxygen species from the RB,

wherein the corneal tissue is not contacted with an exogenous cross-linkable substrate  
which is cross-linked by the application of electromagnetic energy,

thereby promoting a partial or complete repair of the corneal lesion.

18. (Original) The method of claim 17, wherein the subject is a human.

19. (Original) The method of claim 17, wherein the corneal lesion is caused by a  
surgical procedure.

20. (Currently Amended) The method of claim 19, wherein the surgical procedure is selected from the group consisting of corneal transplant surgery, cataract surgery, laser surgery, keratoplasty, LASIK, refractive surgery, cornea reshaping, and treatment of corneal laceration.

21. (Withdrawn) A kit for repairing a corneal lesion comprising:  
a photosensitizer agent; and  
instructions for photoactivation of the photosensitizer agent to repair a corneal lesion.

22. (Withdrawn) The kit of claim 21, wherein the photosensitizer agent is Rose Bengal.

23. (Previously Presented) The method of claim 1, wherein at least one photosensitizer agent is a thiazine dye.

Please add the following new claims:

24. (New) The method of claim 1 wherein the electromagnetic energy is applied for at least five minutes.

25. (New) The method of claim 12 wherein the electromagnetic energy is applied for at least five minutes.